


LISTING OF CLAIMS

1. (Original): A delay composition comprising mixed particles of silicon, barium sulfate and red lead, the red lead being present in an amount of about 3 to 15 % by weight of the composition.
2. (Original): The composition of claim 1 wherein the red lead is present in an amount of about 6 to 12 % by weight of the composition.
3. (Original): The composition of claim 1 wherein the red lead is present in an amount of about 9 to 12 % by weight of the composition.
4. (Original): The composition of claim 1 wherein the composition contains about 40 to 60 % by weight of said barium sulfate and about 25 to 50% by weight of said silicon.
5. (Original): The composition of claim 1 further containing a binder causing collections of said particles to bind together in the form of free-flowing granules.
6. (Original): The composition of claim 5 wherein said binder is selected from the group consisting of solvent-soluble polymers, silica and swelling clays.
7. (Original): The composition of claim 5 wherein said binder is a water-soluble derivative of cellulose.
8. (Original): The composition of claim 5 wherein the binder is carboxymethyl cellulose.
9. (Original): The composition of claim 8 wherein said binder is present in an amount of 0.2 to 0.6% by weight of the composition.
10. (Original): The composition of claim 1 wherein the particles of barium sulfate have a specific surface area of about $0.8 \text{ m}^2/\text{g}$, the particles of silicon have a specific surface area of 6 to $8 \text{ m}^2/\text{g}$, and the red lead has a particle size of about 1 to 3 microns.

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11. (Original): A delay composition in the form of free flowing granules each consisting essentially of mixed particles of silicon, barium sulfate and red lead, together with a binder, the red lead being present in an amount of about 3 to 15 % by weight of the composition.
 12. (Canceled): A delay element for a detonator or delay device, comprising an elongated hollow metal tube, containing a delay composition comprising mixed particles of silicon, barium sulfate and red lead, the red lead being present in an amount of about 3 to 15 % by weight of the composition.
 13. (Canceled): The delay element of claim 12 wherein the delay composition has a density in the range of 1.8 to 2.2 g/cc.
 14. (Canceled): The delay element of claim 12 wherein the delay composition has a density of 1.95 to 2.15 g/cc.
 15. (Canceled): The delay element of claim 12 wherein the metal tube is made of a rigid metal.
 16. (Canceled): The delay element of claim 12 wherein the tube is made of a metal selected from the group consisting of zinc, aluminum, steel and brass.
 17. (Canceled): The delay element of claim 12 wherein the tube is made of zinc.
 18. (Canceled): The delay element of claim 12 wherein the delay composition further contains a binder causing collections of said particles to agglomerate together in the form of granules.
 19. (Canceled): The delay element of claim 18 wherein said binder is selected from the group consisting of solvent-soluble polymers, silica and swelling clays.
 20. (Canceled): The delay element of claim 18 wherein said binder is a water-soluble derivative of cellulose.
 21. (Canceled): The delay element of claim 18 wherein the binder is carboxymethyl cellulose.

22. (Canceled): The delay element of claim 21 wherein said binder is present in an amount of 0.2 to 0.6% by weight of the composition.
23. (Canceled): The delay element of claim 12 wherein particles of barium sulfate have a specific surface area of about $0.8 \text{ m}^2/\text{g}$, the particles of silicon have a specific surface area of 6 to $8 \text{ m}^2/\text{g}$, and the red lead has a particle size of about 1 to 3 microns.
24. (Canceled): The delay element of claim 12 having a length corresponding to a burning delay of at least one second.
25. (Canceled): The delay element of claim 12 having a length corresponding to a burning delay of about 2 to 9 seconds.
26. (Canceled): A delay element for a detonator or delay device, comprising an elongated hollow tube made of a rigid metal selected from the group consisting of zinc, aluminum, steel and brass, containing a delay composition in the form of free flowing granules each consisting essentially of mixed particles of silicon, barium sulfate and red lead, together with a binder, the red lead being present in an amount of about 3 to 15 % by weight of the composition, and the element having a length corresponding to a burning delay of at least one second.
27. (Canceled): A detonation delay device comprising a combustion starter, a charge to be detonated, and a delay element separating said combustion starter and said charge to be detonated, said delay element being an element according to claim 12.
28. (Canceled): The detonation delay device of claim 28 including non-electric means for igniting said starter.
29. (Canceled): The detonation delay device of claim 28 including electric means for igniting said starter.
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